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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/805,035	03/14/2001	Michiyasu Komatsu	204628US0	1647	
22850 75	590 09/19/2002				
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC			EXAMINER		
	FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY			GROUP, KARL E	
ARLINGTON,	i, VA 22202		ART UNIT	PAPER NUMBER	
			ARTONI	TATER NOMBER	
•			1755	5	
			DATE MAILED: 09/19/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.



AS5

Application No.

09/80¶,035

Applicant(s)

Komatsu

Examiner

Office Action Summary

Karl Group

Art Unit 1**755**

	The MAILING DATE of this communication appears of	on the cover sheet with the correspondence address			
	for Reply				
THE N		TO EXPIRE MONTH(S) FROM no event, however, may a reply be timely filed after SIX (6) MONTHS from the			
- If the p - If NO p - Failure - Any re	g date of this communication. period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply as to reply within the set or extended period for reply will, by statute, cause the sply received by the Office later than three months after the mailing date of the period for reply will.	and will expire SIX (6) MONTHS from the mailing date of this communication. he application to become ABANDONED (35 U.S.C. § 133).			
Status	·				
1) 🗌	Responsive to communication(s) filed on				
2a) 🗌	This action is FINAL . 2b) 💢 This acti	ion is non-final.			
3) 🗆	Since this application is in condition for allowance e closed in accordance with the practice under Ex par	except for formal matters, prosecution as to the merits is arte Quayle, 1935 C.D. 11; 453 O.G. 213.			
Disposit	tion of Claims				
4) 💢	Claim(s) <u>1-20</u>	is/are pending in the application.			
4		is/are withdrawn from consideration.			
5) 🗆	Claim(s)	is/are allowed.			
	Claim(s) <u>1-16</u>				
7) 🗆	Claim(s)	is/are objected to.			
		are subject to restriction and/or election requirement.			
	ation Papers				
9) 🗆	The specification is objected to by the Examiner.				
10)□	10) ☐ The drawing(s) filed on is/are a) ☐ accepted or b) ☐ objected to by the Examiner.				
	Applicant may not request that any objection to the dr				
11)	11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examine				
	If approved, corrected drawings are required in reply to this Office action.				
12)	The oath or declaration is objected to by the Examin	ner.			
Priority	under 35 U.S.C. §§ 119 and 120				
13)💢	13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) 🗴	a) ☑ All b) ☐ Some* c) ☐ None of:				
	1. X Certified copies of the priority documents have	e been received.			
:	2. \square Certified copies of the priority documents have	e been received in Application No			
	application from the International Burea				
_	ee the attached detailed Office action for a list of the				
14) ∐ a) ⊑	Acknowledgement is made of a claim for domestic				
	The translation of the foreign language provisional Acknowledgement is made of a claim for domestic				
Attachme		priority under 35 0.5.C. 99 120 and/or 121.			
		4) Interview Summary (PTO-413) Paper No(s).			
_	ntice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)			
3) 💢 Info	ormation Disclosure Statement(s) (PTO-1449) Paper No(s). 3,4	6) Other:			

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1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-116, drawn to a product, classified in class 501, subclass 97.2.

II. Claims 17-20, drawn to a method of producing, classified in class 264, subclass

668.

2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are

distinct if either or both of the following can be shown: (1) that the process as claimed can be

used to make other and materially different product or (2) that the product as claimed can be

made by another and materially different process (MPEP § 806.05(f)). In the instant case the

product may be made by reaction sintering elemental Si.

3. Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art because of their recognized divergent subject matter, restriction for

examination purposes as indicated is proper.

4. During a telephone conversation with Frederick Vastine on 9-10-02 a provisional election

was made with traverse to prosecute the invention of Group I, claims 1-16. Affirmation of this

election must be made by applicant in replying to this Office action. Claims 17-20 are withdrawn

from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected

invention.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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6. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 5, "of which" is confusing, "having a long axis of" is suggested.

Furthermore, "here, R expresses on of rare earth" is confusing as well as parentheses should be removed.

Claims 2 and 4 "are singly particle dispersed" is confusing.

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1-16 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over DE3840171 and Suyama et al (US 5,098,872), each taken alone.

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The German reference teaches a silicon nitride wear resistant member that may be used as a bearing material silicon nitride, 1-5 wt% titanium nitride and an intergranular phase including Si, Al, Ce, O and N (see abstract supplied).

Suyama et al also teaches a wear resistant material which include an amorphous grain boundary phase and the addition of rare earth, titanium oxide and an aluminum compound. The titanium oxide reacts with nitrogen to form titanium nitride. (See column 4, lines 8-18).

- 10. It is well settled that when a claimed composition appears to be substantially the same as a composition disclosed in the prior art, the burden is properly upon the applicant to prove by way of tangible evidence that the prior art composition does not necessarily possess characteristics attributed to the CLAIMED composition. <u>In re Spada</u>, 911 F.2d 705, 15 USPQ2d 1655 (Fed. Circ. 1990); <u>In re Fitzgerald</u>, 619 F.2d 67, 205 USPQ 594 (CCPA 1980); <u>In re Swinehart</u>, 439 F.2d 2109, 169 USPQ 226 (CCPA 1971).
- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl Group whose telephone number is (703)308-3821. The examiner can normally be reached on Monday-Thursday from 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell, can be reached on (703)308-3823. The fax phone number for this Group is (703)872-

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9310, for any non-final amendment or communication, and (703)872-9311 for any after-final amendment or communication.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)308-0661.

KARL GROUP PRIMARY EXAMINER ART UNIT 1755

Keg September 16, 2002